

AMENDED VERSION

CLAIMS:

1. (Currently Amended) A method of providing a neurotrophic factors ~~biologically active moiety~~ by administering Sertoli cells to a central nervous system of a patient in need of such treatment that are naturally immune privileged and that have been isolated and genetically modified in a laboratory apparatus so as to express said ~~biologically active moiety~~ neurotrophin such that said cells express said neurotrophin [biologically active moiety] in a pharmacologically effective amount *in vivo*.

Claims 2-6 (canceled)

7. (Currently Amended) The method of claim 1, where said genetic modification is a nonviral physical method selected from the group ~~including but not limited to~~ consisting of microinjection, electroporation, ~~lipofection~~ lipofection, chemically-mediated transfection with calcium phosphate, and liposomes.

8. (Previously Amended) The method of claim 1, wherein said genetic modification uses at least one viral vector selected from the group consisting of retroviral vectors, adenoviral vectors, and adeno-associated viral vectors.

Claim 9 (canceled)

10. (Original) The method of claim 1, wherein said cells are administered by surgical implantation.

Claim 11-24 (canceled)